SEQUENCE LISTING

<110> Walke, D. Wade
    Friddle, Carl Johan
    Mathur, Brian
    Turner, C. Alexander Jr.

<120> Novel Human GABA Receptors and
  Polynucleotides Encoding the Same

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Met Gly Pro Leu Lys Ala Phe Leu Phe Ser Pro Phe Leu Leu Arg Ser
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caa agt aga ggg gtg agg ttg gtc ttc ttg tta ctg acc ctg cat ttg    96
Gln Ser Arg Gly Val Arg Leu Val Phe Leu Leu Leu Thr Leu His Leu
            20                  25                  30

gga aac tgt gtt gat aag gca gat gat gaa gat gat gag gat tta acg   144
Gly Asn Cys Val Asp Lys Ala Asp Asp Glu Asp Asp Glu Asp Leu Thr
        35                  40                  45

gtg aac aaa acc tgg gtc ttg gcc cca aaa att cat gaa gga gat atc   192
Val Asn Lys Thr Trp Val Leu Ala Pro Lys Ile His Glu Gly Asp Ile
    50                  55                  60

aca caa att ctg aat tca ttg ctt caa ggc tat gac aat aaa ctt cgt   240
Thr Gln Ile Leu Asn Ser Leu Leu Gln Gly Tyr Asp Asn Lys Leu Arg
 65                  70                  75                  80

cca gat ata gga gtg agg ccc acr gta att gaa act gat gtt tat gta   288
Pro Asp Ile Gly Val Arg Pro Xaa Val Ile Glu Thr Asp Val Tyr Val
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aac agc att gga cca gtt gat cca att aat atg gaa tat aca ata gat   336
Asn Ser Ile Gly Pro Val Asp Pro Ile Asn Met Glu Tyr Thr Ile Asp
            100             105             110

ata att ttt gcc caa acc tgg ttt gac agt cgt tta aaa ttc aat agt   384
Ile Ile Phe Ala Gln Thr Trp Phe Asp Ser Arg Leu Lys Phe Asn Ser
            115             120             125

acc atg aaa gtg ctt atg ctt aac agt aat atg gtt gga aaa att tgg   432
Thr Met Lys Val Leu Met Leu Asn Ser Asn Met Val Gly Lys Ile Trp
            130             135             140

att cct gac act ttc ttc aga aac tca aga aaa tct gat gct cac tgg   480
Ile Pro Asp Thr Phe Phe Arg Asn Ser Arg Lys Ser Asp Ala His Trp
145             150             155             160

ata aca act cct aat cgt ctg ctt cga att tgg aat gat gga cga gtt   528
Ile Thr Thr Pro Asn Arg Leu Leu Arg Ile Trp Asn Asp Gly Arg Val
                165             170             175

ctg tat act cta aga ttg aca att aat gca gaa tgt tat ctt cag ctt   576
Leu Tyr Thr Leu Arg Leu Thr Ile Asn Ala Glu Cys Tyr Leu Gln Leu
                180             185             190

cat aac ttt ccc atg gat gaa cat tcc tgt cca ctg gaa ttt tca agc   624
His Asn Phe Pro Met Asp Glu His Ser Cys Pro Leu Glu Phe Ser Ser
                195             200             205

tat gga tac cct aaa aat gaa att gag tat aag tgg aaa aag ccc tcc   672
Tyr Gly Tyr Pro Lys Asn Glu Ile Glu Tyr Lys Trp Lys Lys Pro Ser
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gta gaa gtg gct gat cct aaa tac tgg aga tta tat cag ttt gca ttt   720
Val Glu Val Ala Asp Pro Lys Tyr Trp Arg Leu Tyr Gln Phe Ala Phe
225             230             235             240

gta ggg tta cgg aac tca act gaa atc act cac acg atc tcw ggg gat   768
Val Gly Leu Arg Asn Ser Thr Glu Ile Thr His Thr Ile Xaa Gly Asp
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Phe Thr Ile Gln Thr Tyr Ile Pro Cys Ile Leu Thr Val Val Leu Ser
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Trp Val Ser Phe Trp Ile Asn Lys Asp Ala Val Pro Ala Arg Thr Ser
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Val Ser Val Cys Phe Ile Phe Val Phe Ala Ala Leu Met Glu Tyr Gly
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acc ttg cat tat ttt acc agc aac caa aaa gga aag act gct act aaa    1104
Thr Leu His Tyr Phe Thr Ser Asn Gln Lys Gly Lys Thr Ala Thr Lys
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gac aga aag cta aaa aat aaa gcc tcg atg act cct ggt ctc cat cct    1152
Asp Arg Lys Leu Lys Asn Lys Ala Ser Met Thr Pro Gly Leu His Pro
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gat tat ggg tat cag tgt ttg gag ggc aaa gat tgt gcc agc ttc ttc    1248
Asp Tyr Gly Tyr Gln Cys Leu Glu Gly Lys Asp Cys Ala Ser Phe Phe
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tgt tgc ttt gaa gac tgc aga aca gga tct tgg agg gaa gga agg ata    1296
Cys Cys Phe Glu Asp Cys Arg Thr Gly Ser Trp Arg Glu Gly Arg Ile
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cac ata cgc att gcc aaa att gac tct tat tct aga ata ttt ttc cca    1344
His Ile Arg Ile Ala Lys Ile Asp Ser Tyr Ser Arg Ile Phe Phe Pro
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Gly Asn Cys Val Asp Lys Ala Asp Asp Glu Asp Glu Asp Leu Thr
            35                  40                  45
Val Asn Lys Thr Trp Val Leu Ala Pro Lys Ile His Glu Gly Asp Ile
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                50                      55                      60
Thr Gln Ile Leu Asn Ser Leu Leu Gln Gly Tyr Asp Asn Lys Leu Arg
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Pro Asp Ile Gly Val Arg Pro Thr Val Ile Glu Thr Asp Val Tyr Val
                85                      90                      95
Asn Ser Ile Gly Pro Val Asp Pro Ile Asn Met Glu Tyr Thr Ile Asp
                100                     105                     110
Ile Ile Phe Ala Gln Thr Trp Phe Asp Ser Arg Leu Lys Phe Asn Ser
                115                     120                     125
Thr Met Lys Val Leu Met Leu Asn Ser Asn Met Val Gly Lys Ile Trp
        130                     135                     140
Ile Pro Asp Thr Phe Phe Arg Asn Ser Arg Lys Ser Asp Ala His Trp
145                     150                     155                     160
Ile Thr Thr Pro Asn Arg Leu Leu Arg Ile Trp Asn Asp Gly Arg Val
                165                     170                     175
Leu Tyr Thr Leu Arg Leu Thr Ile Asn Ala Glu Cys Tyr Leu Gln Leu
                180                     185                     190
His Asn Phe Pro Met Asp Glu His Ser Cys Pro Leu Glu Phe Ser Ser
                195                     200                     205
Tyr Gly Tyr Pro Lys Asn Glu Ile Glu Tyr Lys Trp Lys Lys Pro Ser
        210                     215                     220
Val Glu Val Ala Asp Pro Lys Tyr Trp Arg Leu Tyr Gln Phe Ala Phe
225                     230                     235                     240
Val Gly Leu Arg Asn Ser Thr Glu Ile Thr His Thr Ile Ser Gly Asp
                245                     250                     255
Tyr Val Ile Met Thr Ile Phe Phe Asp Leu Ser Arg Arg Met Gly Tyr
                260                     265                     270
Phe Thr Ile Gln Thr Tyr Ile Pro Cys Ile Leu Thr Val Val Leu Ser
                275                     280                     285
Trp Val Ser Phe Trp Ile Asn Lys Asp Ala Val Pro Ala Arg Thr Ser
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Leu Gly Ile Thr Thr Val Leu Thr Met Thr Thr Leu Ser Thr Ile Ala
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Arg Lys Ser Leu Pro Lys Val Ser Tyr Val Thr Ala Met Asp Leu Phe
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Val Ser Val Cys Phe Ile Phe Val Phe Ala Ala Leu Met Glu Tyr Gly
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Thr Leu His Tyr Phe Thr Ser Asn Gln Lys Gly Lys Thr Ala Thr Lys
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Asp Arg Lys Leu Lys Asn Lys Ala Ser Met Thr Pro Gly Leu His Pro
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Gly Ser Thr Leu Ile Pro Met Asn Asn Ile Ser Val Pro Gln Glu Asp
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Asp Tyr Gly Tyr Gln Cys Leu Glu Gly Lys Asp Cys Ala Ser Phe Phe
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Cys Cys Phe Glu Asp Cys Arg Thr Gly Ser Trp Arg Glu Gly Arg Ile
                420                     425                     430
His Ile Arg Ile Ala Lys Ile Asp Ser Tyr Ser Arg Ile Phe Phe Pro
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1               5                   10                  15

caa agt aga ggg gtg agg ttg gtc ttc ttg tta ctg acc ctg cat ttg    96
Gln Ser Arg Gly Val Arg Leu Val Phe Leu Leu Leu Thr Leu His Leu
                20                  25                  30

gga aac tgt gtt gat aag gca gat gat gaa gat gat gag gat tta acg   144
Gly Asn Cys Val Asp Lys Ala Asp Asp Glu Asp Asp Glu Asp Leu Thr
            35                  40                  45

gtg aac aaa acc tgg gtc ttg gcc cca aaa att cat gaa gga gat atc   192
Val Asn Lys Thr Trp Val Leu Ala Pro Lys Ile His Glu Gly Asp Ile
        50                  55                  60

aca caa att ctg aat tca ttg ctt caa ggc tat gac aat aaa ctt cgt   240
Thr Gln Ile Leu Asn Ser Leu Leu Gln Gly Tyr Asp Asn Lys Leu Arg
65                  70                  75                  80

cca gat ata gga gtg agg ccc aca gta att gaa act gat gtt tat gta   288
Pro Asp Ile Gly Val Arg Pro Thr Val Ile Glu Thr Asp Val Tyr Val
                85                  90                  95

aac agc att gga cca gtt gat cca att aat atg gaa tat aca ata gat   336
Asn Ser Ile Gly Pro Val Asp Pro Ile Asn Met Glu Tyr Thr Ile Asp
                100                 105                 110

ata att ttt gcc caa acc tgg ttt gac agt cgt tta aaa ttc aat agt   384
Ile Ile Phe Ala Gln Thr Trp Phe Asp Ser Arg Leu Lys Phe Asn Ser
            115                 120                 125

acc atg aaa gtg ctt atg ctt aac agt aat atg gtt gga aaa att tgg   432
Thr Met Lys Val Leu Met Leu Asn Ser Asn Met Val Gly Lys Ile Trp
        130                 135                 140

att cct gac act ttc ttc aga aac tca aga aaa tct gat gct cac tgg   480
Ile Pro Asp Thr Phe Phe Arg Asn Ser Arg Lys Ser Asp Ala His Trp
145                 150                 155                 160

ata aca act cct aat cgt ctg ctt cga att tgg aat gat gga cga gtt   528
Ile Thr Thr Pro Asn Arg Leu Leu Arg Ile Trp Asn Asp Gly Arg Val
                165                 170                 175

ctg tat act cta aga ttg aca att aat gca gaa tgt tat ctt cag ctt   576
Leu Tyr Thr Leu Arg Leu Thr Ile Asn Ala Glu Cys Tyr Leu Gln Leu
                180                 185                 190
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cat aac ttt ccc atg gat gaa cat tcc tgt cca ctg gaa ttt tca agc      624
His Asn Phe Pro Met Asp Glu His Ser Cys Pro Leu Glu Phe Ser Ser
        195                 200                 205

tat gga tac cct aaa aat gaa att gag tat aag tgg aaa aag ccc tcc      672
Tyr Gly Tyr Pro Lys Asn Glu Ile Glu Tyr Lys Trp Lys Lys Pro Ser
        210                 215                 220

gta gaa gtg gct gat cct aaa tac tgg aga tta tat cag ttt gca ttt      720
Val Glu Val Ala Asp Pro Lys Tyr Trp Arg Leu Tyr Gln Phe Ala Phe
225                 230                 235                 240

gta ggg tta cgg aac tca act gaa atc act cac acg atc tct ggg gat      768
Val Gly Leu Arg Asn Ser Thr Glu Ile Thr His Thr Ile Ser Gly Asp
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tag                                                                  771
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            20                  25                  30
Gly Asn Cys Val Asp Lys Ala Asp Asp Glu Asp Asp Glu Asp Leu Thr
        35                  40                  45
Val Asn Lys Thr Trp Val Leu Ala Pro Lys Ile His Glu Gly Asp Ile
        50                  55                  60
Thr Gln Ile Leu Asn Ser Leu Leu Gln Gly Tyr Asp Asn Lys Leu Arg
65                  70                  75                  80
Pro Asp Ile Gly Val Arg Pro Thr Val Ile Glu Thr Asp Val Tyr Val
                85                  90                  95
Asn Ser Ile Gly Pro Val Asp Pro Ile Asn Met Glu Tyr Thr Ile Asp
            100                 105                 110
Ile Ile Phe Ala Gln Thr Trp Phe Asp Ser Arg Leu Lys Phe Asn Ser
        115                 120                 125
Thr Met Lys Val Leu Met Leu Asn Ser Asn Met Val Gly Lys Ile Trp
        130                 135                 140
Ile Pro Asp Thr Phe Phe Arg Asn Ser Arg Lys Ser Asp Ala His Trp
145                 150                 155                 160
Ile Thr Thr Pro Asn Arg Leu Leu Arg Ile Trp Asn Asp Gly Arg Val
                165                 170                 175
Leu Tyr Thr Leu Arg Leu Thr Ile Asn Ala Glu Cys Tyr Leu Gln Leu
                180                 185                 190
His Asn Phe Pro Met Asp Glu His Ser Cys Pro Leu Glu Phe Ser Ser
        195                 200                 205
Tyr Gly Tyr Pro Lys Asn Glu Ile Glu Tyr Lys Trp Lys Lys Pro Ser
        210                 215                 220
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6

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